BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AT JAYANNA LAYOUT & SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 17.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
		Cum							
	Jayanna Layout Main Road		1	216.00	5.50	0.40	475.20		
							475.20	166.42	**79083.00**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
2	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
				Qty Vide Item No.2			**475.20**	100.00	**47520.00**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
3	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
		Cum							
			1	216.00	5.50	0.15	178.20		
							178.20	1665.26	**296749.00**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
4	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
		Cum							
			1	216.00	5.50	0.225	267.30		
							267.30	1768.08	**472608.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
5	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
		Cum							
			1	216.00	5.50		1188.00		
							1188.00	27.56	**32741.00**
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
		Cum							
			1	216.00	5.50	0.050	59.40		
							59.40	6435.26	**382254.00**
	Basic Rate	6071.00							
	Area Weightage @ 6%	364.26							
	Total	**6435.26**							
	KSRRB 500-7:Providing and **applying tack coat with bitumen emulsion** using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
		Sqm							
			1	216.00	5.50		1188.00		
							1188.00	14.84	**17630.00**

No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate	14.00							
	Area Weightage @ 6%	0.84							
	Total	**14.84**							
	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
		Cum							
			1	216.00	5.50	0.040	47.52		
							47.52	7270.54	**345496.00**
	Basic Rate	6859.00							
	Area Weightage @ 6%	411.54							
	Total	**7270.54**							
	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.181 & I.No.24.15)								
		Sqm		2.5	216	0.10	54.00		
							54.00	464.28	**25071.00**
	Basic Rate	438.00							
	Area Weightage @ 6%	26.28							
	Total	**464.28**							
	Miscellaneous and unforeseen charges	LS							848.00
							Grand Total Amount		**1700000.00**
							(Rupees Seventeen Lakhs Only)		

TECHNICALLY SANCTIONED FOR Rs. 17.00 Lacs
Rupees Seventeen lakhs only
Under P.1771-2016-17
Registered as CE(TS) 9 9
Subject to conditions contained in enclosed memo EE(TS)/ /9/
Dt. Sanctioned
CE/TS/BO/16-17
Dated 16.2.17 Rs. 17.00 Lacs
Executive Engineer

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.01

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval
Accorded For 17.00 lakhs
Head of A/C..... P.1771
CER NO :..... 173 Dt:..16 02 17

Executive Engineer
Yelahanka Division
B.B.M.P

TA

CE (YNK)

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TYPICAL CROSS SECTION OF ASPHALT ROAD

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪ ವಿಭಾಗ, ಜಿ.ಜಿ.ಎಂ.ಪಿ

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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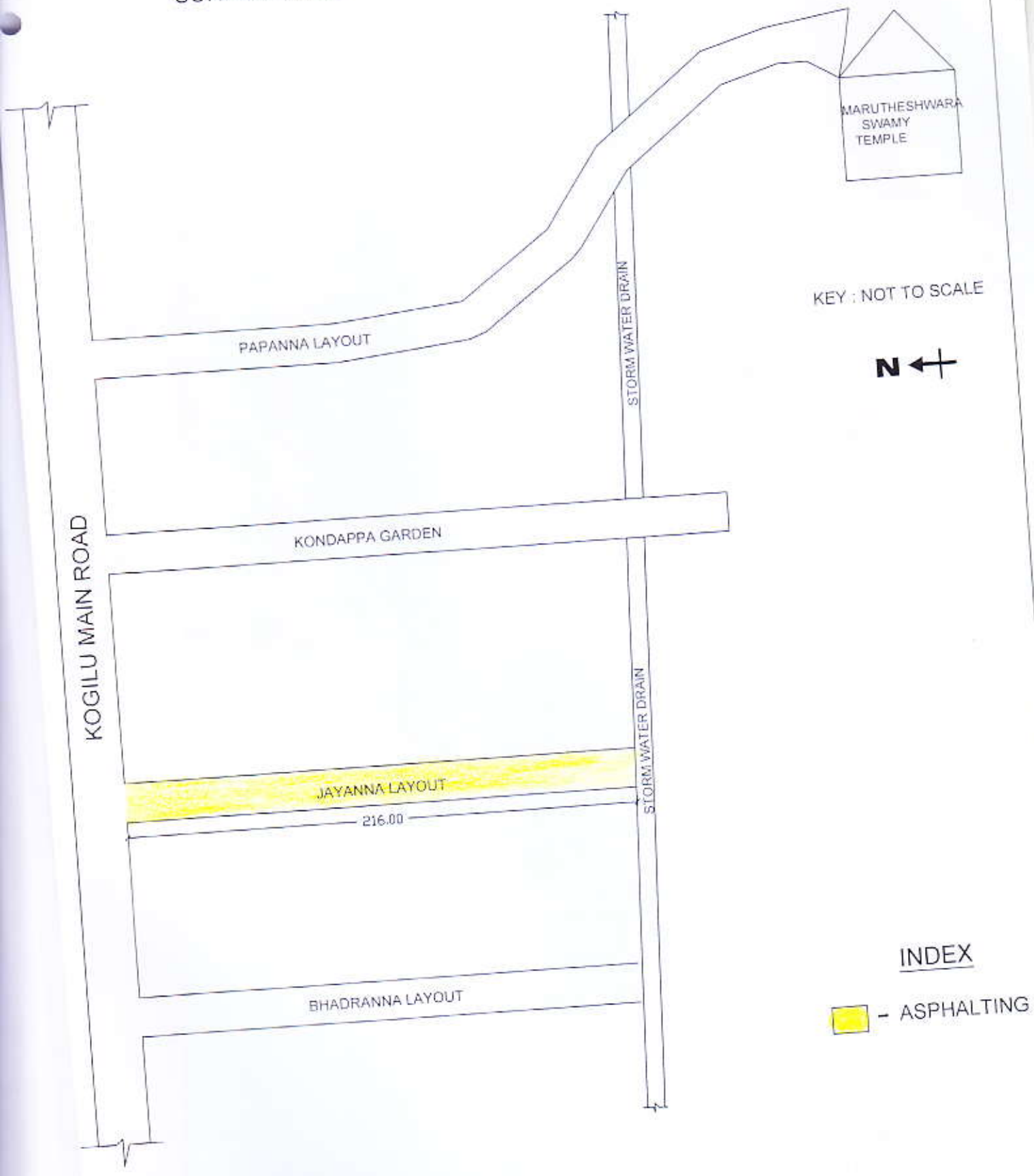

Assistant Engineer
Ward No.01
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P